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VOL. 18 No. 6 February 9, 1968

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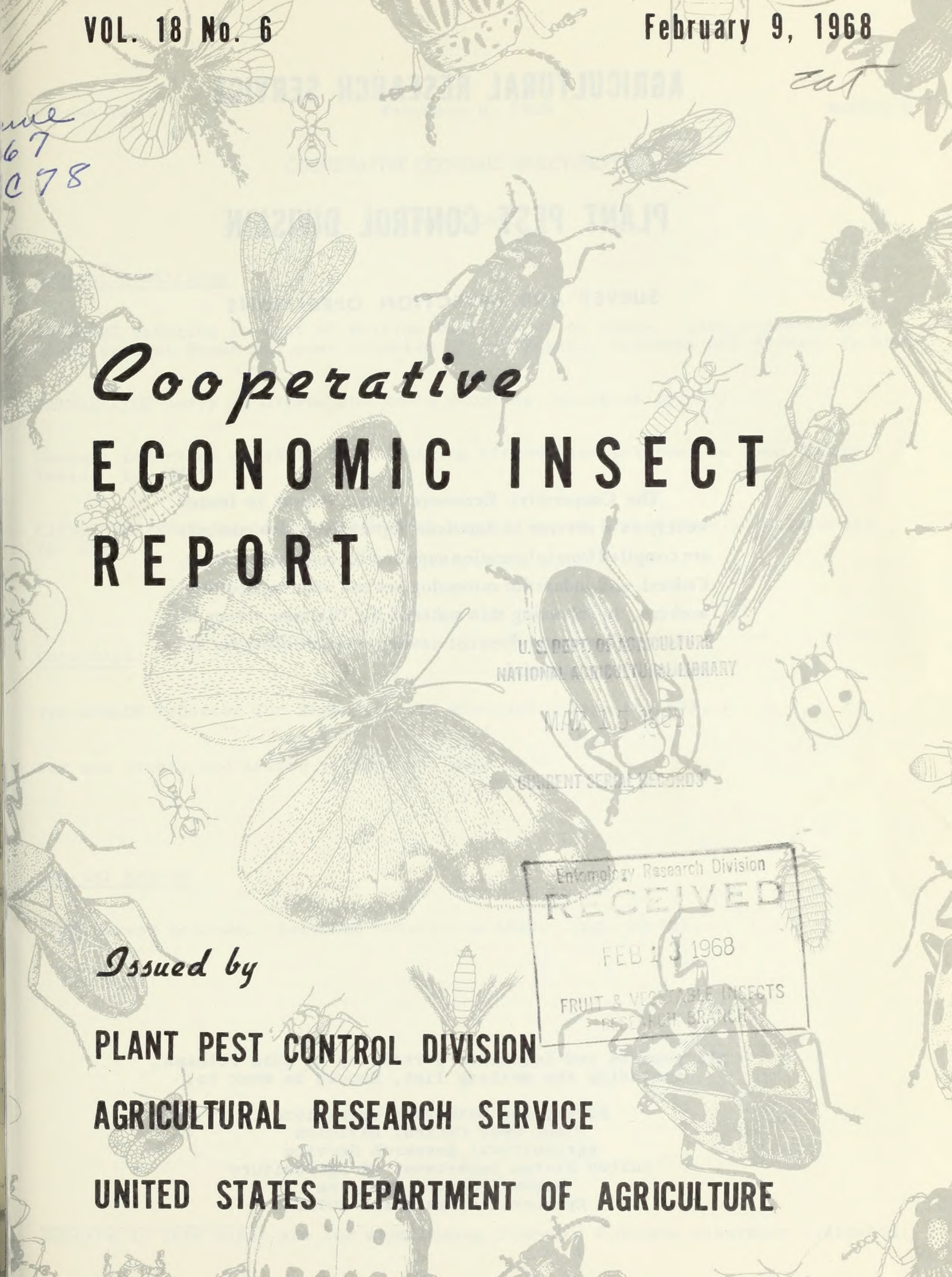

Cooperative
ECONOMIC INSECT REPORT

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SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearing house and does not assume responsibility for accuracy of the material.

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Plant Pest Control Division
Agricultural Research Service
United States Department of Agriculture
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Hyattsville, Maryland 20782

Volume 18 February 9, 1968 Number 6

COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

GREENBUG damaging in most of Rolling Plains area of Texas. Also reported from other area of Texas and some counties of New Mexico, Oklahoma and Kansas. (p.65).

CATTLE LICE heavy in Ottawa and Noble Counties, Oklahoma (p. 67).

Unusual report of a TINEID MOTH damaging stored sweetpotatoes in Camp County, Texas. (p. 67).

CITRUS WHITEFLY infesting residential properties in Orange County, California. (p. 68).

Detection

Two APHIDS reported for first time in Missouri. (pp. 66, 67).

For new county and island records see page 68.

Special Report

● Survey Methods. Selected References 1960. (pp. 70-72).

Reports in this issue are for week ending February 2 unless otherwise indicated.

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WEATHER BUREAU'S 30-DAY OUTLOOK

FEBRUARY 1968

The Weather Bureau's 30-day outlook for February is for temperatures to average above seasonal normals over most of the Nation except for near normal in New England and near to below normal in the northern Plains, the southern Plains, and the southern Rockies. Precipitation is expected to exceed normal in the Pacific Northwest and also over the gulf coast region, the middle Mississippi Valley, and the Ohio Valley. Subnormal totals are indicated for the Far Southwest, the central Plains, and Florida. Elsewhere near normal precipitation is in prospect.

Weather forecast given here is based on the official 30-day "Resume and Outlook" published twice a month by the Weather Bureau. You can subscribe through the Superintendent of Documents, Washington, D. C. 20250. Price $5.00 a year.

WEATHER OF THE WEEK ENDING FEBRUARY 5

HIGHLIGHTS: Mild temperatures continued over the entire Nation except two small areas. Storms lashed the Far Northwest and generous rains occurred over portions of the East.

PRECIPITATION: Most of the week's precipitation fell during the first half. A storm off the Washington coast produced heavy rains along the coast with snow in the Cascades, the northern Sierras, and eastward to the Rockies. The snowpack at Mt. Baker Lodge, Washington, increased to 104 inches. Strong winds reaching 40 m.p.h. drifted the snow badly and buried automobiles in the Truckee, California, vicinity. The storm activity in the Northwest diminished after midweek and warmer temperatures melted much of the snow in the valleys but left a good snowpack at higher elevations. Another large area that received generous rains early in the week extended from eastern Texas to New England. Rain and fog became widespread as warm, moist gulf air met cold arctic air from the north. By midweek, thunderstorms were occurring at spots along the front separating the air masses. Weekly totals ranged from 1 to 3 inches over a wide band extending from Arkansas to Lakes Huron and Erie. The generous rains, melting snow, and ice jams caused flooding along streams in Lower Michigan, Indiana, the northern portion of Ohio, and in western Pennsylvania. Precipitation was mostly light over the Desert Southwest and the western Great Plains. Many areas received no rain or only light sprinkles or snow flurries. Only light precipitation fell in the Far Southeast except for moderate to heavy showers along Florida's lower east coast Sunday night.

Weather of the Week continued on page 69.

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

BEET LEAFHOPPER (*Circulifer tenellus*) - CALIFORNIA - Total of 11,780 acres treated as winter control activites completed. Acres treated by county as follows: Kings 3,715, Fresno 2,625 and Merced 5,440. Leafhoppers currently range 2-20 per 10 sweeps in Merced and Fresno Counties; controls applied. Highest winter populations occurred in Los Banos Hills where additional controls anticipated in spring. Control of over 98 percent predicted on basis of kill checks in Los Banos Hills. (Cal. Coop. Rpt.). ARIZONA - Light in some Maricopa County sugarbeet fields. (Ariz. Coop. Sur.).

CORN LEAF APHID (*Rhopalosiphum maidis*) - ARIZONA - Small colonies in most barley fields in Maricopa County. (Ariz. Coop. Sur.).

GREENBUG (*Schizaphis graminum*) - NEW MEXICO - Ranged 10-30 per linear foot in most barley in Roswell, Chaves County; 100+ per linear foot in one field. (Mathews). TEXAS - Activity generally spotty throughout panhandle area. Ranged from very light to 400-500 per row foot in Lubbock, Crosby, Floyd, and Hale Counties. Lady beetles and damsel bugs dominant predators in many areas. Greenbug damaging in most of Rolling Plains area and generally spotty on small grains in most of central area. (Almand). OKLAHOMA - Counts per linear foot on wheat by county: Kiowa 3-20 in 4 fields; Washita and Custer 0-12; Noble, Pawnee, and Payne less than 5. (Okla. Coop. Sur.). KANSAS - Light to moderate in wheat in Finney, Scott, and Kearney Counties; heaviest north of Garden City. (DePew). Ranged 2-4 per foot in Sedgwick and Montgomery Counties and 2 per foot in Cherokee and Labette Counties; none found in Chautauqua and Cowley Counties. (Redding). None found in wheat in Clay, Riley, Pottawatomie, and Wabaunsee Counties. (Simpson).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ARIZONA - Ranged 0-80 and 0-50 per 100 sweeps in alfalfa in Yuma and Maricopa Counties, respectively. (Ariz. Coop. Sur.).

FORAGE LEGUMES

PEA APHID (*Acyrthosiphon pisum*) - MISSISSIPPI - Light, 10-20 per square foot, on Oktibbeha County alfalfa. (Dinkins). NEW MEXICO - Very light in Chaves County alfalfa. (Mathews). ARIZONA - Ranged 150-200 per 100 sweeps in alfalfa in Yuma Valley, Yuma County. (Ariz. Coop. Sur.).

THREE-CORNERED ALFALFA HOPPER (*Spissistilus festinus*) - ARIZONA - Ranged 40-150 per 100 sweeps in alfalfa in Yuma area, Yuma County. (Ariz. Coop. Sur.).

ALFALFA WEEVIL (*Hypera postica*) - ARKANSAS - Egg laying in alfalfa stems in Stone County (Roberts); eggs in stems from Washington County field hatched at room temperature in laboratory (Dumas). MISSISSIPPI - Larvae light, 3 per square foot, in Oktibbeha County alfalfa; 2 adults taken in 3 samples. (Dinkins).

CLOVER SEED WEEVIL (*Miccotrogus picirostris*) - MISSOURI - Swept from red clover at Weldon Springs, St. Charles County, by R. E. Munson and L. R. Hanning, August 8, 1967. Det. by W. S. Craig. This is a new county record. (Munson).

LYGUS BUGS (*Lygus* spp.) - ARIZONA - Ranged 30-70 per 100 sweeps in Yuma Valley, Yuma County. (Ariz. Coop. Sur.).

ALFALFA CATERPILLAR (*Colias eurytheme*) - ARIZONA - Ranged 0-20 per 100 sweeps in alfalfa in Maricopa and Yuma Counties. (Ariz. Coop. Sur.).

GREEN CLOVERWORM (*Plathypena scabra*) - ARKANSAS - Adults active around lights at night in Fayetteville area, Washington County. (Boyer).

GENERAL VEGETABLES

GREEN PEACH APHID (Myzus persicae) - ARIZONA - Controls applied to lettuce in several Yuma County fields. (Ariz. Coop. Sur.).

WHEAT CURL MITE (Aceria tulipae) - CALIFORNIA - Infesting garlic plantings in Tulelake, Siskiyou County. (Cal. Coop. Rpt.).

DECIDUOUS FRUITS AND NUTS

A PEACH TREE BORER (Sanninoidea sp.) - NEW MEXICO - Larvae moderate to heavy at base of peach trees in orchard at Albuquerque, Bernalillo County. (Heninger).

WOOLLY APPLE APHID (Eriosoma lanigerum) - NEW MEXICO - Few isolated infestations on tree trunks in apple orchards at Albuquerque, Bernalillo County. (Heninger).

SAN JOSE SCALE (Aspidiotus perniciosus) - ALABAMA - Light in commercial peach orchards as result of treatment. Controls underway in Elmore, Tallapoosa, and several other counties. (McQueen).

CITRUS

GLOVER SCALE (Lepidosaphes gloverii) - FLORIDA - Infested 6,000 of 15,000 sweet orange nursery trees at Springhead, Hillsborough County, January 22; controls very effective. (Vaughan).

CALIFORNIA RED SCALE (Aonidiella aurantii) - CALIFORNIA - Moderate on citrus in control district in Round Valley, Tulare County. (Cal. Coop. Rpt.).

CITRUS RED MITE (Panonychus citri) - ARIZONA - Light in some groves throughout Yuma Mesa, Yuma County. (Ariz. Coop. Sur.).

SMALL FRUITS

FALSE CELERY LEAF TIER (Udea profundalis) - CALIFORNIA - Larvae of this species and aphids, probably Macrosiphum euphorbiae, light in 5-acre strawberry planting in Selma, Fresno County. Heavy buildups predicted if weather favorable. (Cal. Coop. Rpt.).

ORNAMENTALS

AN APHID (Rhopalosiphoninus latysiphon) - MISSOURI - Collected from rodent nest at Louisiana, Pike County, November 29, 1967, by W. S. Craig. Det. by L. M. Russell. This is a new State record. (Munson).

GROUND MEALYBUG (Rhizoecus falcifer) - CALIFORNIA - Eggs and adults heavy in soil around aralia plants in Vacaville, Solano County. (Cal. Coop. Rpt.).

AN ACARID MITE (Rhizoglyphus callae) - ALABAMA - Damaged Easter lily plants in large greenhouse in Lee County January 5. Det. by R. I. Sailer. (McQueen).

TWO-SPOTTED SPIDER MITE (Tetranychus urticae) - CALIFORNIA - Nymphs and adults damaging begonia plantings at Quincy, Plumas County. (Cal. Coop. Rpt.).

FOREST AND SHADE TREES

EASTERN TENT CATERPILLAR (Malacosoma americanum) - FLORIDA - Eggs hatching on wild cherry and wild plum trees at Gainesville, Alachua County. Det. by L. A. Hetrick. (Hetrick).

AN APHID (Aphis caliginosa) - MISSOURI - Collected on stems of dogwood at Jefferson City, Cole County, May 10, 1967, by W. S. Craig. Det. by L. M. Russell. This is a new State record. (Munson).

A CYNIPID WASP (Callirhytis punctata) - TEXAS - Infesting red oak trees in Bexar County. (Texas Coop. Rpt.).

MAN AND ANIMALS

COMMON CATTLE GRUB (Hypoderma lineatum) - OKLAHOMA - Moderate on cattle in Ottawa and Mayes Counties. (Okla. Coop. Sur.).

SCREW-WORM (Cochliomyia hominivorax) - No cases reported in U.S. January 28-February 3, 1968. Total of 183 cases reported in portion of Barrier Zone in Republic of Mexico as follows: Baja California 3, Territorio sur de Baja California 126, Sonora 19, Chihuahua 5, Coahuila 4, Nuevo Leon 2, Tamaulipas 24. Total of 37 cases reported in Mexico south of Barrier Zone. Barrier Zone is area where eradication operations underway to prevent establishment of self-sustaining population in U.S. Sterile screw-worm flies released: Texas 168,000, Mexico 106,566,000. (Anim. Health Div.).

CATTLE LICE - OKLAHOMA - Heavy in Ottawa County. Linognathus vituli ranged up to 100 per 3-square-inch area on muzzle region of calves in Noble County. (Okla. Coop. Sur.).

BROWN DOG TICK (Rhipicephalus sanguineus) - ARIZONA - Infesting housing unit on military base in Yuma County. (Ariz. Coop. Sur.).

STORED PRODUCTS

INDIAN-MEAL MOTH (Plodia interpunctella) - MARYLAND - Heavy in stored soybeans on farm in Charles County. (U. Md., Ent. Dept.). NEW MEXICO - Heavy in stored yellow corn in feed store at Carlsbad, Eddy County. (Judd). CALIFORNIA - Larvae moderate in cotton gin in Lamont, Kern County. (Cal. Coop. Rpt.).

A TINEID MOTH (Haplotinea ditella) - TEXAS - Larvae damaging sweetpotatoes in storage warehouses in Camp County. Det. by D. M. Weisman. (Cates).

LESSER GRAIN BORER (Rhyzopertha dominica) - ARIZONA - Very heavy in stored grain sorghum at warehouse in Yuma, Yuma County. (Ariz. Coop. Sur.).

A DERMESTID BEETLE (Trogoderma simplex) - CALIFORNIA - Larvae heavy in sacked milo on ranch in Calipatria, Imperial County. (Cal. Coop. Rpt.).

BENEFICIAL INSECTS

HONEY BEE (Apis mellifera) - CALIFORNIA - Overwintering clusters dispersing; egg laying beginning. Supplemental feeding very satisfactory; broods increased average of 4 times normal size. (Cal. Coop. Rpt.).

FEDERAL & STATE PLANT PROTECTION PROGRAMS

CITRUS WHITEFLY (Dialeurodes citri) - CALIFORNIA - Infesting residential properties in Tustin, Orange County; delimiting survey continues as treatments begun. Area previously infested in 1931. (Cal. Coop. Rpt.).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - Larvae numerous within cotton bolls on stalks and ground in unplowed 22-acre field in Palo Verde area, Maricopa County; plowing under of remaining few thousand acres of stalks planned. (Ariz. Coop. Sur.).

RANGE CATERPILLAR (Hemileuca oliviae) - NEW MEXICO - Egg mass survey January 23-24 in Colfax, Union, and Harding Counties indicates spray program during summer of 1967 successful. Egg masses difficult to find in treated areas; very light in adjoining untreated areas. (Nielsen, Mathews).

WHITE GARDEN SNAIL (Theba pisana) - CALIFORNIA - First of 4 seasonal bait applications completed at Manhattan Beach, Los Angeles County; no live specimens found. (Cal. Coop. Rpt.).

WOOLLY WHITEFLY (Aleurothrixus floccosus) - CALIFORNIA - Delimiting survey continues in San Diego area, San Diego County; treatments begun. (Cal. Coop. Rpt.).

INSECT DETECTION

New State Records

AN APHID (Rhopalosiphoninus latysiphon) - MISSOURI - Collected in rodent nest at Louisiana, Pike County, by W. S. Craig, November 29, 1967. Det. by L. M. Russell. (p. 66).

AN APHID (Aphis caliginosa) - MISSOURI - Collected on dogwood at Jefferson City, Cole County, by W. S. Craig, May 10, 1967. Det. by L. M. Russell. (p. 67).

New County and Island Records

BROWN RECLUSE SPIDER (Loxosceles reclusa) - ALABAMA - Lawrence County. Originally carried in CEIR 17(47):1026, but not reported as a new county record.

CLOVER SEED WEEVIL (Miccotrogus picirostris) - MISSOURI - St. Charles County. (p. 65).

A BRACONID (Opius dissitus) - HAWAII - Maui Island. (p. 69).

CORRECTIONS

CEIR 17(47):1021, 1025 - CITRUS RED MITE - Change Yuma and Mesa citrus area to Yuma Mesa citrus area, Arizona.

LIGHT TRAP COLLECTIONS

FLORIDA - Gainesville - 1/29, BL - Armyworm (Pseudaletia unipuncta) 9, black cutworm (Agrotis ipsilon) 5, granulate cutworm (Feltia subterranea) 12.

HAWAII INSECT REPORT

Turf, Pasture - ARMYWORM (*Pseudaletia unipuncta*) light on Kikuyu grass at 3,500 feet elevation in Paauilo, Hawaii Island. A BRACONID (*Apanteles militaris*) noted in area. (Davis). Larval damage by a GRASS WEBWORM (*Herpetogramma licarsisalis*) light to heavy on turf and pasture grasses in scattered areas on Oahu. Adults light to moderate on turf and common on walls and ceilings of buildings in many areas of Honolulu. (Funasaki).

Vegetables - DIAMONDBACK MOTH (*Plutella xylostella*) adults light, larvae moderate, and eggs heavy on cabbage at 2,300 feet elevation in upper Omaopio and on cauliflower at 1,400 feet in Pulehu, Maui. (Ah Sam). GREENHOUSE WHITEFLY (*Trialeurodes vaporariorum*) and CARMINE SPIDER MITE (*Tetranychus telarius*) generally light on beans throughout Waimanalo and Waianae, Oahu; moderate in areas of some fields. (Higa, Yamamoto). All stages of IMPORTED CABBAGEWORM (*Pieris rapae*) light to moderate on cauliflower in Pulehu and heavy on cabbage in upper Omaopio, Maui. (Ah Sam). GREEN PEACH APHID (*Myzus persicae*) heavy on foliage of 50 papaya trees in Kahuku, Oahu. Also light on bell peppers in Waimanalo and Kahuku, on sweetpotatoes in Kahaluu and Waiahole, and on daikon at Koko Head. (Funasaki, Sato).

Fruits - BLACK CITRUS APHID (*Toxoptera aurantii*) heavy on terminals of calamondin orange in Hilo, Hawaii Island. (Yoshioka).

Ornamentals - COTTON APHID (*Aphis gossypii*) moderate on hibiscus flower buds in Hilo, Hawaii Island; many adults parasitized, probably by a BRACONID (*Aphidius testaceipes*). (Yoshioka).

General Pests - Light buildup of SOUTHERN GREEN STINK BUG (*Nezara viridula*), mostly nymphs, noted on weeds, especially black nightshade, in farming area of Waimanalo, Oahu. (Higa, Funasaki).

Man and Animals - HORN FLY (*Haematobia irritans*) heavy, 7 per square inch, on Black Angus cattle at 3,500 feet elevation in South Kohala, Hawaii Island. (Davis).

Household - LOWLAND TREE TERMITE (*Incisitermes immigrans*) damaging plywood paneling and mouldings in home at Kailua, Oahu. Infestations in ginseng hedge and large kiawe tree on property probable source of this uncommon structural infestation. (Higa).

Beneficial Insects - Several adults of a BRACONID (*Opius dissitus*) reared from pupae of leaf miner flies (*Liriomyza* spp.) collected on tomatoes in Kahului, Maui. This is a new island record. Previously found only in Waimanalo, Oahu. (Chong).

TEMPERATURE: Mild temperatures prevailed over most of the Nation. It was the third consecutive warm week in the central Great Plains, the warmest of the past 8 weeks in Kentucky, and the second mild week in New England. Subzero temperatures occurred Monday morning, January 29, over the northern Rocky Mountains, northern Great Plains, and in spots in Nevada and subfreezing temperatures were common over much of the West on Thursday morning. Most of the Southeast remained above freezing until the weekend when temperatures in the Florida Panhandle dropped to the upper 20's. The cool weather was more than offset by the mild temperatures that prevailed most afternoons. Maximums reached the 50's and 60's on several afternoons early in the week from the central Great Plains to the middle Atlantic coast. Cleveland, Ohio, registered 59° on Friday. Wide areas from South Dakota to Arkansas and northeastward to New England averaged 8° to 15° above normal. (Weather supplied by Environmental Data Service, ESSA.)

Weather of the Week continued from page 64.

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Part VI

Additional copies of Parts I through VI of this bibliography are available from Survey and Detection Operations.

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Prepared in Plant Pest Control
Division February 9, 1968

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